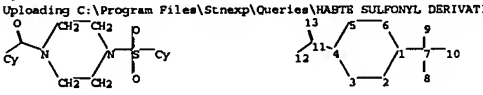
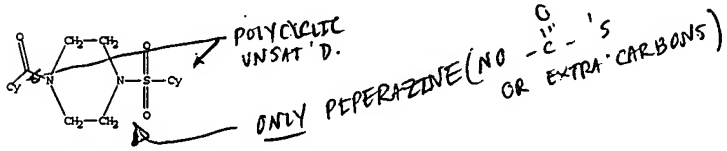
STN SEARCH TRANSCRIPT

10/681,205

```
Connecting via Winsock to STN


Welcome to STN International!  Enter x:x

LOGINID:ssspta1623zct

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR 7):2


* * * * * * * * * *  Welcome to STN International  * * * * * * * * * *

 NEWS  1          Web Page URLs for STN Seminar Schedule - N. America
 NEWS  2          "Ask CAS" for self-help around the clock
 NEWS  3  SEP 01  New pricing for the Save Answers for SciFinder Wizard within
                  STN Express with Discover!
 NEWS  4  OCT 28  KOREAPAT now available on STN
 NEWS  5  NOV 30  PHAR reloaded with additional data
 NEWS  6  DEC 01  LISA now available on STN
 NEWS  7  DEC 09  12 databases to be removed from STN on December 31, 2004
 NEWS  8  DEC 15  MEDLINE update schedule for December 2004
 NEWS  9  DEC 17  SLCOM reloaded; updating to resume; current-awareness
                  alerts (SDIs) affected
 NEWS  10 DEC 17  COMPUAB reloaded; updating to resume; current-awareness
                  alerts (SDIs) affected
 NEWS  11 DEC 17  SOLIDSTATE reloaded; updating to resume; current-awareness
                  alerts (SDIs) affected
 NEWS  12 DEC 17  CSRAB reloaded; updating to resume; current-awareness
                  alerts (SDIs) affected
 NEWS  13 DEC 17  THREE NEW FIELDS ADDED TO IFIPAT/IFIUDB/IFICDB
 NEWS  14 DEC 30  EPFULL: New patent full text database to be available on STN
 NEWS  15 DEC 30  CAPLUS - PATENT COVERAGE EXPANDED
 NEWS  16 JAN 03  No connect-hour charges in EPFULL during January and
                  February 2005

 NEWS EXPRESS  OCTOBER 29 CURRENT WINDOWS VERSION IS V7.01A, CURRENT
               MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
               AND CURRENT DISCOVER FILE IS DATED 11 AUGUST 2004
 NEWS HOURS    STN Operating Hours Plus Help Desk Availability
 NEWS INTER    General Internet Information
 NEWS LOGIN    Welcome Banner and News Items
 NEWS PHONE    Direct Dial and Telecommunication Network Access to STN
 NEWS WWW      CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that
specific topic.

  All use of STN is subject to the provisions of the STN Customer
  agreement.  Please note that this agreement limits use to scientific
  research.  Use for software development or design or implementation
  of commercial gateways or other similar uses is prohibited and may
  result in loss of user privileges and other penalties.

  * * * * * * * * * * * * * STN  Columbus  * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 11:04:34 ON 10 JAN 2005

=> FILE REG
COST IN U.S. DOLLARS                            SINCE FILE      TOTAL
                                                   ENTRY    SESSION

FULL ESTIMATED COST                                0.21       0.21

FILE 'REGISTRY' ENTERED AT 11:04:41 ON 10 JAN 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2005 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES:    7 JAN 2005  HIGHEST RN 810025-80-0
DICTIONARY FILE UPDATES:   7 JAN 2005  HIGHEST RN 810025-80-0

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

Crossover limits have been increased.  See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>
Uploading C:\Program Files\Stnexp\Queries\HABTE SULFONYL DERIVATIVES.str
```



```
chain nodes :
7  8  9  10  11  12  13
ring nodes :
1  2  3  4  5  6
chain bonds :
1-7  4-11  7-8  7-9  7-10  11-12  11-13
ring bonds :
1-2  1-6  2-3  3-4  4-5  5-6
exact/norm bonds :
1-2  1-6  1-7  2-3  3-4  4-5  4-11  5-6  7-8  7-9  7-10  11-12  11-13

Match level :
1:Atom  2:Atom  3:Atom  4:Atom  5:Atom  6:Atom  7:CLASS  8:CLASS  9:CLASS  10:Atom
11:CLASS  12:Atom  13:CLASS
Generic attributes :
10:
Saturation               : Unsaturated
Type of Ring System      : Polycyclic
12:
Saturation               : Unsaturated
Type of Ring System      : Polycyclic


L1      STRUCTURE UPLOADED

=> D L1
L1 HAS NO ANSWERS
L1                STR
```




```
Structure attributes must be viewed using STN Express query preparation.


=> S L1
SAMPLE SEARCH INITIATED 11:05:10 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -    623 TO ITERATE

100.0% PROCESSED     623 ITERATIONS                          9 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:       10963 TO    13957
PROJECTED ANSWERS:              9 TO      360

L2             9 SEA SSS SAM L1

=> FILE CAPLUS
COST IN U.S. DOLLARS                            SINCE FILE      TOTAL
                                                   ENTRY    SESSION

FULL ESTIMATED COST                                0.43       0.64

FILE 'CAPLUS' ENTERED AT 11:05:16 ON 10 JAN 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)


Copyright of the articles to which records in this database refer is
held by the publishers listed in the PUBLISHER (PB) field (available
for records published or updated in Chemical Abstracts after December
26, 1996), unless otherwise indicated in the original publications.
The CA Lexicon is the copyrighted intellectual property of the
American Chemical Society and is provided to assist you in searching
databases on STN.  Any dissemination, distribution, copying, or storing
of this information, without the prior written consent of CAS, is
strictly prohibited.

FILE COVERS 1907 - 10 Jan 2005  VOL 142 ISS 3
FILE LAST UPDATED: 9 Jan 2005  (20050109/ED)

  This file contains CAS Registry Numbers for easy and accurate
  substance identification.


=> S L2
L3             2 L2

=> D 1-2

L3   ANSWER 1 OF 2  CAPLUS  COPYRIGHT 2005 ACS on STN
AN   2001:769282  CAPLUS
DN   135:313616
TI   Heterocyclic sulfonyl compounds and activated blood coagulation factor X
     (FXa) inhibitors containing them
IN   Kobayashi, Shozo; Komoritani, Satoshi; Haginoya, Noriyasu; Suzuki,
     Masanori; Yoshino, Toshiharu; Nagahara, Takayasu; Yoshikawa, Kenji; Muto,
     Akira; Ozanai, Takeshi; Nakamoto, Yumi; Mochizuki, Akiyoshi; Nagata,
     Tsutomu
PA   Daiichi Seiyaku Co., Ltd., Japan
SO   Jpn. Kokai Tokkyo Koho, 304 pp.
     CODEN: JKXXAF
DT   Patent
LA   Japanese
FAN.CNT 1
     PATENT NO.          KIND   DATE        APPLICATION NO.      DATE
     ------------------  ----   --------    -------------------  --------
PI   JP 2001294572       A2     20011023    JP 2000-38100        20000209
PRAI JP 2000-38100                20000209
OS   MARPAT 135:313616

L3   ANSWER 2 OF 2  CAPLUS  COPYRIGHT 2005 ACS on STN
AN   2000:133658  CAPLUS
DN   132:194391
TI   Preparation of sulfonyl moiety-containing heterocyclic compounds as factor
     Xa inhibitors
IN   Kobayashi, Syozo; Komoriya, Satoshi; Haginoya, Noriyasu; Suzuki, Masanori;
     Yoshino, Toshiharu; Nagahara, Takayasu; Nagata, Tsutomu; Horino, Haruhiko;
     Ito, Masayuki; Mochizuki, Akiyoshi
PA   Daiichi Pharmaceutical Co., Ltd., Japan
SO   PCT Int. Appl., 883 pp.
     CODEN: PIXXD2
DT   Patent
LA   Japanese
FAN.CNT 1
     PATENT NO.          KIND   DATE        APPLICATION NO.      DATE
     ------------------  ----   --------    -------------------  --------
PI   WO 2000009480       A1     20000224    WO 1999-JP4344       19990811
         W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ,
            DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS,
            JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK,
            MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ,
            TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ,
            MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK,
            ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG,
            CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
     JP 2000119253        A2     20000425    JP 1999-226878       19990810
     CA 2340100           AA     20000224    CA 1999-2340100      19990811
     AU 9951963           A1     20000306    AU 1999-51963        19990811
     EP 1104754           A1     20010606    EP 1999-937024       19990811
          R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
            IE, SI, LT, LV, FI, RO
     JP 2000143623        A2     20000526    JP 1999-242814       19990830
     US 6747023           B1     20040608    US 2001-762888       20010212
     US 2004082611        A1     20040429    US 2003-681205       20031009
PRAI JP 1998-227449       A      19980811
     JP 1998-244175       A      19980828
     JP 1998-251674       A      19980904
     WO 1999-JP4344       W      19990811
     US 2001-762888       A3     20010212
OS   MARPAT 132:194391
RE.CNT  67    THERE ARE 67 CITED REFERENCES AVAILABLE FOR THIS RECORD
              ALL CITATIONS AVAILABLE IN THE RE FORMAT


=> FILE REG
COST IN U.S. DOLLARS                            SINCE FILE      TOTAL
                                                   ENTRY    SESSION
```

NOT PRIOR ART

APPLICANTS

FULL ESTIMATED COST 2.65 3.29

FILE 'REGISTRY' ENTERED AT 11:05:41 ON 10 JAN 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2005 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 7 JAN 2005 HIGHEST RN 810025-80-0
DICTIONARY FILE UPDATES: 7 JAN 2005 HIGHEST RN 810025-80-0

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=> S L1 SSS FULL
FULL SEARCH INITIATED 11:05:46 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 13332 TO ITERATE

100.0% PROCESSED 13332 ITERATIONS 238 ANSWERS
SEARCH TIME: 00.00.01

L4 238 SEA SSS FUL L1

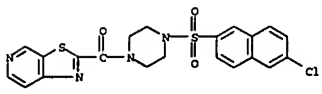
=> FILE CAPLUS
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION
FULL ESTIMATED COST 161.33 164.62

FILE 'CAPLUS' ENTERED AT 11:06:09 ON 10 JAN 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

FILE COVERS 1907 - 10 Jan 2005 VOL 142 ISS 3
FILE LAST UPDATED: 9 Jan 2005 (20050109/ED)

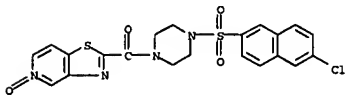
This file contains CAS Registry Numbers for easy and accurate substance identification.

=> S L4
L5 11 L4

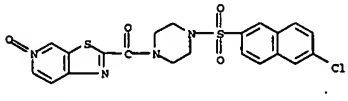


● HCl

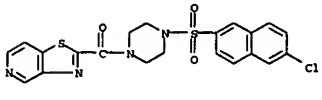
RN 259806-05-8 CAPLUS
CN Piperazine, 1-[(6-chloro-2-naphthalenyl)sulfonyl]-4-[(5-oxidothiazolo[4,5-c]pyridin-2-yl)carbonyl]- (9CI) (CA INDEX NAME)



RN 782501-36-4 CAPLUS
CN Piperazine, 1-[(6-chloro-2-naphthalenyl)sulfonyl]-4-[(5-oxidothiazolo[5,4-c]pyridin-2-yl)carbonyl]- (9CI) (CA INDEX NAME)



RN 782501-39-7 CAPLUS
CN Piperazine, 1-[(6-chloro-2-naphthalenyl)sulfonyl]-4-(thiazolo[4,5-c]pyridin-2-ylcarbonyl)-, hydrochloride (2:1) (9CI) (CA INDEX NAME)



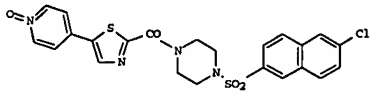
●1/2 HCl

IT 724706-32-5
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(factor Xa inhibitors containing pyridine oxide and carbamoylthiazole units)

=> S L5 NOT L3
L6 9 L5 NOT L3

=> D 1-9 IBIB ABS HITSTR

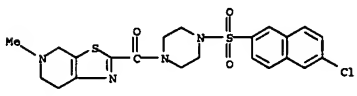
L6 ANSWER 1 OF 9 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2004:819171 CAPLUS
DOCUMENT NUMBER: 141:374426
TITLE: Design, synthesis, and biological activity of non-amidine factor Xa inhibitors containing pyridine N-oxide and 2-carbamoylthiazole units
AUTHOR(S): Haginoya, Noriyasu; Kobayashi, Syozo; Komoriya, Satoshi; Yoshino, Toshiharu; Nagata, Tautomu; Hirokawa, Yumiko; Nagahara, Takayasu
CORPORATE SOURCE: Medicinal Chemistry Research Laboratory, Daiichi Pharmaceutical Co. Ltd, Edogawa-ku, Tokyo, 134-8630, Japan
SOURCE: Bioorganic & Medicinal Chemistry (2004), 12(21), 5579-5586
CODEN: BMECEP; ISSN: 0968-0896
PUBLISHER: Elsevier Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



I

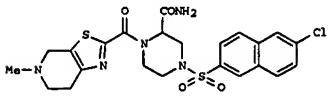
AB A series of thiazol-5-ylpyridine deriva. containing pyridine N-oxide and 2-carbamoylthiazole units was synthesized to optimize the S4 binding element on factor Xa. N-Oxidation of thiazol-5-ylpyridine increased the anti-fXa activity more than 10-fold independent on the position of N-oxide. The 4-pyridine N-oxide deriva. excelled over tetrahydrothiazolopyridine in potency. 2-Methylpyridine N-oxide exhibited 49-fold selectivity over thrombin. Our modeling study proposed a binding mode that the pyridine N-oxide ring of I stuck into the cation hole', and the oxide anion of I occupied in the almost same space to that of FXV673. From observations of the SAR and modeling studies, we suggested the possibilities that the formation of hydrogen bond with the oxide anion in the cation hole' and the affinity of cationic pyridine ring to S4 subsite were responsible for increase in anti-fXa activity.
IT 222985-55-9P 259806-05-8P 782501-36-4P
782501-39-7P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(factor Xa inhibitors containing pyridine oxide and carbamoylthiazole units)
RN 222985-55-9 CAPLUS
CN Piperazine, 1-[(6-chloro-2-naphthalenyl)sulfonyl]-4-(thiazolo[5,4-c]pyridin-2-ylcarbonyl)-, monohydrochloride (9CI) (CA INDEX NAME)

RN 724706-32-5 CAPLUS
CN Piperazine, 1-[(6-chloro-2-naphthalenyl)sulfonyl]-4-[(4,5,6,7-tetrahydro-5-methylthiazolo[5,4-c]pyridin-2-yl)carbonyl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 2 OF 9 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2004:747454 CAPLUS
DOCUMENT NUMBER: 141:395464
TITLE: Synthesis and Conformational Analysis of a Non-Amidine Factor Xa Inhibitor That Incorporates 5-Methyl-4,5,6,7-tetrahydrothiazolo[5,4-c]pyridine as S4 Binding Element
AUTHOR(S): Haginoya, Noriyasu; Kobayashi, Syozo; Komoriya, Satoshi; Yoshino, Toshiharu; Suzuki, Makoto; Shimada, Takashi; Watanabe, Kengo; Hirokawa, Yumiko; Furugori, Taketoshi; Nagahara, Takayasu
CORPORATE SOURCE: Medicinal Chemistry Research Laboratory, Daiichi Pharmaceutical Co. Ltd, Edogawa-ku, Tokyo, 134-8630, Japan
SOURCE: Journal of Medicinal Chemistry (2004), 47(21), 5167-5182
CODEN: JMCMAR; ISSN: 0022-2623
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



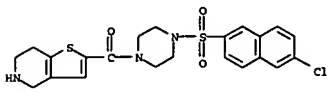
I

AB Our exploratory study was based on the concept that a non-amidine factor Xa (fXa) inhibitor is suitable for an orally available anticoagulant. We synthesized and evaluated a series of N-(6-chloronaphthalen-2-yl)sulfonylpiperazine deriva. incorporating various fused-bicyclic rings containing an aliphatic amine expected to be S4 binding element. Among this series, 5-methyl-4,5,6,7-tetrahydrothiazolo[5,4-c]pyridine type I displayed orally potent anti-fXa activity and evident prolongation of prothrombin time (PT) with the moderate bioavailability in rats. The X-ray crystal anal. afforded an obvious binding mode that 5-methyl-4,5,6,7-tetrahydrothiazolo[5,4-c]pyridine and 6-chloronaphthalene resp. bound to S4 and S1 subsites. In this X-ray study, we discovered a novel intramol. S-O close contact. Ab initio energy calcns. of model compds. deduced that conformers with the most close S-O proximity were most stable. The Mulliken population anal. proposed that this energy profile was caused by both of electrostatic S-O affinity and N-O

repulsion. The results of these calcns. and X-ray anal. suggested a possibility that the restricted conformation effected the affinity to S4 subsite of fXa.

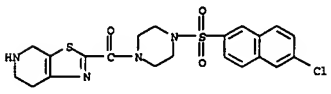
IT 222985-57-1P 222985-68-4P 222986-13-2P
259805-64-6P 259805-66-8P 790254-82-9P
RL: PAC (Pharmacological activity); PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent)
(preparation, factor Xa inhibition activity and structure-activity relationship of (chloronaphthalenylsulfonyl)piperazines bearing fused-heterobicyclic rings)

RN 222985-57-1 CAPLUS
CN Piperazine, 1-[(6-chloro-2-naphthalenyl)sulfonyl]-4-[(4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)carbonyl]-, monohydrochloride (9CI) (CA INDEX NAME)



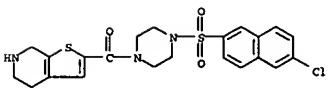
● HCl

RN 222985-68-4 CAPLUS
CN Piperazine, 1-[(6-chloro-2-naphthalenyl)sulfonyl]-4-[(4,5,6,7-tetrahydrothiazolo[5,4-c]pyridin-2-yl)carbonyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

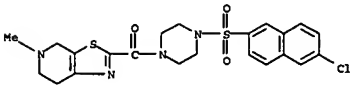
RN 222986-13-2 CAPLUS
CN Piperazine, 1-[(6-chloro-2-naphthalenyl)sulfonyl]-4-[(1,2,3,4-tetrahydro-6-isoquinolinyl)carbonyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

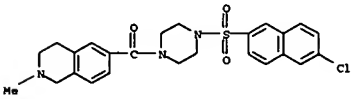
IT 222985-75-3P 222986-14-3P 259805-67-9P
259805-88-4P 790254-66-9P 790254-72-7P
790254-77-2P 790254-84-1P
RL: PAC (Pharmacological activity); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation, factor Xa inhibition activity and structure-activity relationship of (chloronaphthalenylsulfonyl)piperazines bearing fused-heterobicyclic rings)

RN 222985-75-3 CAPLUS
CN Piperazine, 1-[(6-chloro-2-naphthalenyl)sulfonyl]-4-[(4,5,6,7-tetrahydro-5-methylthiazolo[5,4-c]pyridin-2-yl)carbonyl]-, monohydrochloride (9CI) (CA INDEX NAME)



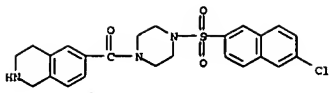
● HCl

RN 222986-14-3 CAPLUS
CN Piperazine, 1-[(6-chloro-2-naphthalenyl)sulfonyl]-4-[(1,2,3,4-tetrahydro-2-methyl-6-isoquinolinyl)carbonyl]-, monohydrochloride (9CI) (CA INDEX NAME)



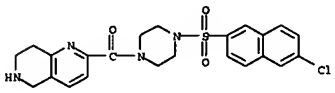
● HCl

RN 259805-67-9 CAPLUS
CN Piperazine, 1-[(6-chloro-2-naphthalenyl)sulfonyl]-4-[(4,5,6,7-tetrahydro-5-methyl-1H-pyrrolo[3,2-c]pyridin-2-yl)carbonyl]-, hydrochloride (10:13) (9CI) (CA INDEX NAME)



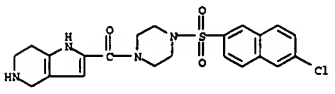
● HCl

RN 259805-64-6 CAPLUS
CN Piperazine, 1-[(6-chloro-2-naphthalenyl)sulfonyl]-4-[(5,6,7,8-tetrahydro-1,6-naphthyridin-2-yl)carbonyl]-, hydrochloride (10:19) (9CI) (CA INDEX NAME)



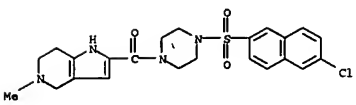
●19/10 HCl

RN 259805-66-8 CAPLUS
CN Piperazine, 1-[(6-chloro-2-naphthalenyl)sulfonyl]-4-[(4,5,6,7-tetrahydro-1H-pyrrolo[3,2-c]pyridin-2-yl)carbonyl]-, hydrochloride (10:11) (9CI) (CA INDEX NAME)



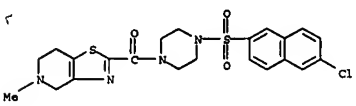
●11/10 HCl

RN 790254-82-9 CAPLUS
CN Piperazine, 1-[(6-chloro-2-naphthalenyl)sulfonyl]-4-[(4,5,6,7-tetrahydrothieno[2,3-c]pyridin-2-yl)carbonyl]-, monohydrochloride (9CI) (CA INDEX NAME)



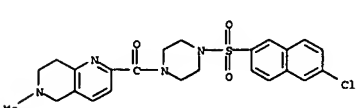
●13/10 HCl

RN 259805-88-4 CAPLUS
CN Piperazine, 1-[(6-chloro-2-naphthalenyl)sulfonyl]-4-[(4,5,6,7-tetrahydro-5-methylthiazolo[4,5-c]pyridin-2-yl)carbonyl]-, monohydrochloride (9CI) (CA INDEX NAME)



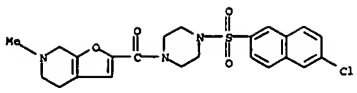
● HCl

RN 790254-66-9 CAPLUS
CN Piperazine, 1-[(6-chloro-2-naphthalenyl)sulfonyl]-4-[(5,6,7,8-tetrahydro-6-methyl-1,6-naphthyridin-2-yl)carbonyl]-, hydrochloride (5:9) (9CI) (CA INDEX NAME)



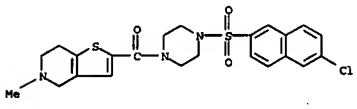
●9/5 HCl

RN 790254-72-7 CAPLUS
CN Piperazine, 1-[(6-chloro-2-naphthalenyl)sulfonyl]-4-[(4,5,6,7-tetrahydro-6-methylfuro[2,3-c]pyridin-2-yl)carbonyl]-, hydrochloride (10:11) (9CI) (CA INDEX NAME)



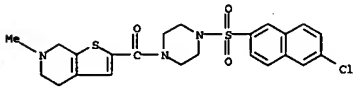
●11/10 HCl

RN 790254-77-2 CAPLUS
CN Piperazine, 1-[(6-chloro-2-naphthalenyl)sulfonyl]-4-[(4,5,6,7-tetrahydro-5-methylthieno[3,2-c]pyridin-2-yl)carbonyl]-, hydrochloride (5:6) (9CI) (CA INDEX NAME)



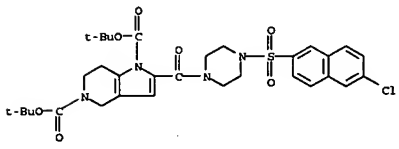
●6/5 HCl

RN 790254-84-1 CAPLUS
CN Piperazine, 1-[(6-chloro-2-naphthalenyl)sulfonyl]-4-[(4,5,6,7-tetrahydro-6-methylthieno[2,3-c]pyridin-2-yl)carbonyl]-, monohydrochloride (9CI) (CA INDEX NAME)

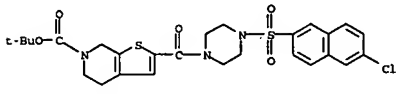


● HCl

IT 222987-38-4P 222987-43-1P 222987-61-3P
259809-48-8P 259809-55-7P 790254-80-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation, factor Xa inhibition activity and structure-activity relationship of (chloronaphthalenylsulfonyl)piperazinea bearing fused-heterobicyclic rings)
RN 222987-38-4 CAPLUS
CN Thieno[3,2-c]pyridine-5(4H)-carboxylic acid, 2-[[4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-piperazinyl]carbonyl]-6,7-dihydro-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

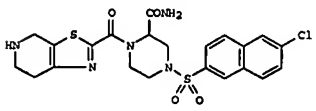


RN 790254-80-7 CAPLUS
CN Thieno[2,3-c]pyridine-6(5H)-carboxylic acid, 2-[[4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-piperazinyl]carbonyl]-4,7-dihydro-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

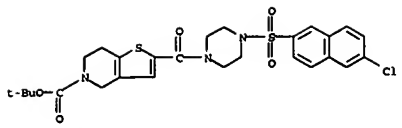


REFERENCE COUNT: 72 THERE ARE 72 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

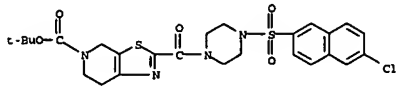
L6 ANSWER 3 OF 9 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2004:362590 CAPLUS
DOCUMENT NUMBER: 141:123587
TITLE: Orally active factor Xa inhibitors: 4,5,6,7-tetrahydrothiazolo[5,4-c]pyridine derivatives
AUTHOR(S): Haginoya, Noriyasu; Kobayashi, Syozo; Komoriya, Satoshi; Hirokawa, Yumiko; Furugori, Taketoshi; Nagahara, Takayasu
CORPORATE SOURCE: Medicinal Chemistry Research Laboratory, Daiichi Pharmaceutical Co. Ltd., Edogawa-ku, Tokyo, 134-8630, Japan
SOURCE: Bioorganic & Medicinal Chemistry Letters (2004), 14(11), 2935-2939
CODEN: BMCLE8; ISSN: 0960-894X
PUBLISHER: Elsevier Science B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 141:123587
GI



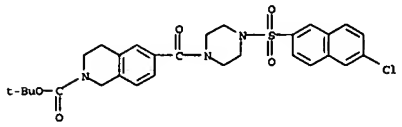
I



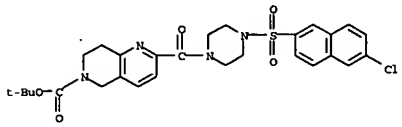
RN 222987-43-1 CAPLUS
CN Thiazolo[5,4-c]pyridine-5(4H)-carboxylic acid, 2-[[4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-piperazinyl]carbonyl]-6,7-dihydro-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



RN 222987-61-3 CAPLUS
CN 2(1H)-Isoquinolinecarboxylic acid, 6-[[4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-piperazinyl]carbonyl]-3,4-dihydro-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

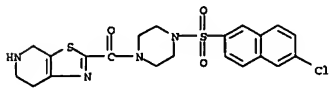


RN 259809-48-8 CAPLUS
CN 1,6-Naphthyridine-6(5H)-carboxylic acid, 2-[[4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-piperazinyl]carbonyl]-7,8-dihydro-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

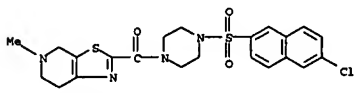


RN 259809-55-7 CAPLUS
CN 1H-Pyrrolo[3,2-c]pyridine-1,5(4H)-dicarboxylic acid, 2-[[4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-piperazinyl]carbonyl]-6,7-dihydro-, bis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

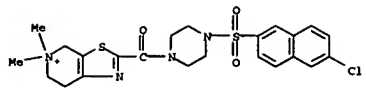
AB In an investigation of factor Xa inhibitors, a series of 1-(6-chloronaphthalen-2-yl)sulfonyl-4-(4,5,6,7-tetrahydrothiazolo[5,4-c]pyridine-2-carbonyl)piperazines were synthesized. In vitro inhibitory activities of the compds. against factor Xa and coagulation are summarized. Among these, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[(4,5,6,7-tetrahydro-5-methylthiazolo[5,4-c]pyridin-2-yl)carbonyl]-2-piperazinecarboxamide (I) and 4-[(6-chloro-2-naphthalenyl)sulfonyl]-N-methyl-1-[(4,5,6,7-tetrahydro-5-methyloxazolo[5,4-c]pyridin-2-yl)carbonyl]-2-piperazinecarboxamide, possessing a carbamoyl or N-methylcarbamoyl moiety, showed potent inhibitory activities when administered orally to rats.
IT 724706-31-4P 724706-32-5P
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent)
(preparation of [(chloronaphthalenyl)sulfonyl][(tetrahydrothiazolo[5,4-c]pyridin-2-yl)carbonyl]piperazine and study of its activity as orally active factor Xa inhibitor)
RN 724706-31-4 CAPLUS
CN Piperazine, 1-[(6-chloro-2-naphthalenyl)sulfonyl]-4-[(4,5,6,7-tetrahydrothiazolo[5,4-c]pyridin-2-yl)carbonyl]- (9CI) (CA INDEX NAME)



RN 724706-32-5 CAPLUS
CN Piperazine, 1-[(6-chloro-2-naphthalenyl)sulfonyl]-4-[(4,5,6,7-tetrahydro-5-methylthiazolo[5,4-c]pyridin-2-yl)carbonyl]- (9CI) (CA INDEX NAME)



IT 222985-77-5P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation of [[[(chloronaphthalenyl)sulfonyl]piperazinyl]carbonyl]tetrahydrothiazolo[5,4-c]pyridinium iodide and study of its activity as orally active factor Xa inhibitor)
RN 222985-77-5 CAPLUS
CN Thiazolo[5,4-c]pyridinium, 2-[[4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-piperazinyl]carbonyl]-4,5,6,7-tetrahydro-5,5-dimethyl-, iodide (9CI) (CA INDEX NAME)



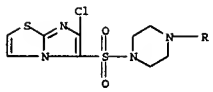
● I⁻

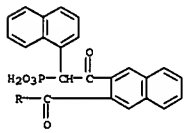
REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 4 OF 9 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2004:353141 CAPLUS
DOCUMENT NUMBER: 140:357508
TITLE: Novel phosphonic acid compounds as inhibitors of serine proteases
INVENTOR(S): Greco, Michael N.; Almond, Harold R.; De Garavilla, Lawrence; Hawkins, Michael J.; Humora, Michael J.; Qian, Yun; Walker, Donald Gilmore; Cesco-Cancian, Sergio; Nilsen, Christopher Norman; Patel, Mitul N.; Sorgi, Kirk Leonard; Powell, Eugene
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 49 pp., Cont.-in-part of U.S. Pat. Appl. 2003 195,172.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

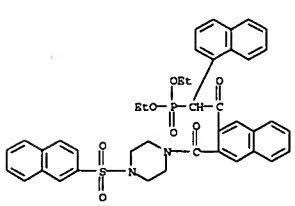
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004082544	A1	20040429	US 2003-414782	20030416
US 2003195172	A1	20031016	US 2002-273208	20021017
WO 2004094441	A2	20041104	WO 2004-US11490	20040414
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
PRIORITY APPLN. INFO.:			US 2001-330343P	P 20011019
			US 2002-273208	B2 20021017
			US 2003-414782	A 20030416

OTHER SOURCE(S): MARPAT 140:357508
GI

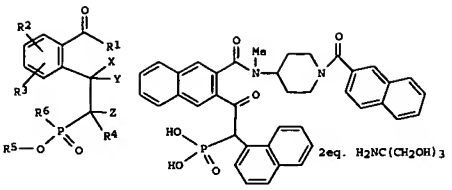




IT 682356-81-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of novel phosphonic acid compds. as inhibitors of serine proteases)
RN 682356-81-6 CAPLUS
CN Phosphonic acid, [1-(1-naphthalenyl)-2-[3-[[4-(2-naphthalenylsulfonyl)-1-piperazinyl]carbonyl]-2-naphthalenyl]-2-oxoethyl]-, diethyl ester (9CI) (CA INDEX NAME)

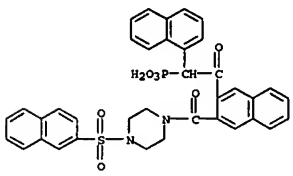


L6 ANSWER 5 OF 9 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2002:126365 CAPLUS
DOCUMENT NUMBER: 136:167364
TITLE: Preparation of thienopyridines as intermediates for inhibitors of activated blood coagulation factor X from pyridines
INVENTOR(S): Suzuki, Norio; Yoshioka, Toshiyuki
PATENT ASSIGNEE(S): Daiichi Seiyaku Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAP
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:



I II

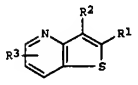
AB The present invention is directed to phosphonic acid compds. I (R1 = amido attached heterocyclyl ring, etc.; R2, R3 = H, C1-4 alkyl, alkoxy, C2-4 alkenyl, halo, OH, etc.; R2R3 = substituted aromatic ring, etc.; R4 = C1-4 alkyl, aryl, heteroaryl, cyano, halo, OH, (halo)1-3(C1-8)alkyl; R5 = H, terminal carbon substituted C1-8 alkyl, etc.; R6 = C1-8 alkyl, aryl(C1-8)alkyl, C1-8 alkoxy, aryl(C1-8)alkoxy, C2-8 alkenyl, C2-8 alkenyloxy, aryl(C2-8)alkenyl, aryl(C2-8)alkenyloxy, aryl, aryloxy, OH; X, Y = independently selected from H, terminal carbon substituted C1-8 alkyl, C1-8 alkoxy, XY = fused spiro cycloalkyl, heterocycloalkyl, etc.; Z = bond, H, C1-8 alkyl, etc.), useful as serine protease inhibitors, compns. thereof and methods for treating inflammatory and serine protease mediated disorders. Thus, preparation of phosphonic acid II was described in several steps starting from di-Et 1-naphthylphosphonate and 2,3-naphthalenedicarboxylic anhydride.
IT 682356-68-9P 682356-74-7P
RL: BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of novel phosphonic acid compds. as inhibitors of serine proteases)
RN 682356-68-9 CAPLUS
CN Phosphonic acid, [1-(1-naphthalenyl)-2-[3-[[4-(2-naphthalenylsulfonyl)-1-piperazinyl]carbonyl]-2-naphthalenyl]-2-oxoethyl]- (9CI) (CA INDEX NAME)



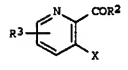
RN 682356-74-7 CAPLUS
CN Phosphonic acid, [2-[3-[[4-[(6-chloroimidazo[2,1-b]thiazol-5-yl)sulfonyl]-1-piperazinyl]carbonyl]-2-naphthalenyl]-1-(1-naphthalenyl)-2-oxoethyl]- (9CI) (CA INDEX NAME)

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002053579	A2	20020219	JP 2000-243754	20000811
PRIORITY APPLN. INFO.:			JP 2000-243754	20000811

OTHER SOURCE(S): CASREACT 136:167364; MARPAT 136:167364
GI

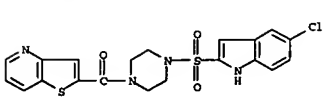


I



II

AB Thienopyridines I (R1 = H, lower alkoxycarbonyl, CO2H; R2, R3 = H, lower alkyl) are prepared by cyclocondensation of pyridines II (R2, R3 = same as above; X = halo) with lower alkyl thioglycolate, followed by optional hydrolysis and decarboxylation. Thus, refluxing 3-fluoro-2-formylpyridine with Et thioglycolate and K2CO3 in EtOH for 1 h gave 74% I (R1 = CO2Et, R2 = R3 = H), which was hydrolyzed, converted into Li salt, amidated with 1-[(5-chloroindol-2-yl)sulfonyl]piperazine, and treated with HCl/EtOH to afford the corresponding amide HCl salt. The product inhibited activated coagulation factor X with IC50 of 15 nM.
IT 368440-37-3P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of thienopyridines as intermediates for inhibitors of activated blood coagulation factor X from pyridines)
RN 368440-37-3 CAPLUS
CN Piperazine, 1-[(5-chloro-1H-indol-2-yl)sulfonyl]-4-(thieno[3,2-b]pyridin-2-ylcarbonyl)-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

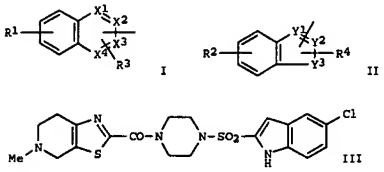
L6 ANSWER 6 OF 9 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2001:636077 CAPLUS
DOCUMENT NUMBER: 135:211057
TITLE: Preparation of N-(tetrahydrothiazolo[5,4-c]pyridin-2-ylcarbonyl)piperazine derivatives and N-(4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-ylmethyl)pyrrolidine derivative and method for inhibiting trypsin-type serine proteases
INVENTOR(S): Komoriya, Satoshi; Haginoya, Noriyasu; Suzuki, Makoto
PATENT ASSIGNEE(S): Daiichi Pharmaceutical Co., Ltd., Japan
SOURCE: PCT Int. Appl., 234 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001062763	A1	20010830	WO 2001-JP1344	20010223

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: JP 2000-54370 A 20000225
GI



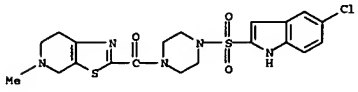
I II

III

AB Trypsin-type serine protease inhibitors are compds. having groups represented by the general formula (I) or (II) (wherein R1 and R2 are each hydrogen, C1-3 alkyl, halo, C2-3 alkenyl, or ethynyl; or R3 and R4 are each hydrogen, hydroxyl, or amino; X1, X2, X3 and X4 are each CH or N; Y1 and Y2 are each CH or N; and Y3 is NH, O or S). When such a compound is made to act on a trypsin-type serine protease, e.g. factor Xa (Fxa), the group enters the S1 pocket to thereby exert an inhibitory activity against the protease. Thus, to a solution of 400 mg 1-[(5-chloroindol-2-yl)sulfonyl]piperazine in 100 mL DMF were added 1-hydroxybenzotriazole 10.5, 1-ethyl-3-(3-dimethylaminopropyl)carbodiimide hydrochloride 194, lithium 5-methyl-4,5,6,7-tetrahydrothiazolo[5,4-c]pyridinecarboxylate 175, and N-methylmorpholine 86.8 mg, and the resulting mixture was stirred at room temperature for 10 h to give 1-[(5-chloroindol-2-yl)sulfonyl]-4-(5-methyl-4,5,6,7-tetrahydrothiazolo[5,4-c]pyridin-2-ylcarbonyl)piperazine hydrochloride (III.HCl). III.HCl showed IC50 of 0.005 μM against human FXa. X-ray crystallog. anal. of the complexes of human Gla domain-deficient β-FXa with the above compds. showed that bicyclic aromatic group (e.g. naphthalenyl) and aromatic heterocyclyl group (e.g. chloroindolyl) entered into the S1 pocket of the Fxa.

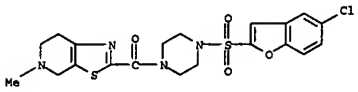
IT 259805-33-9P 357429-82-4P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of (tetrahydrothiazolo[c]pyridinylcarbonyl)piperazine derivs. and (tetrahydrothieno[c]pyridinylmethyl)pyrrolidine derivative and method for inhibiting trypsin-type serine proteases)

RN 259805-33-9 CAPLUS
CN Piperazine, 1-[(5-chloro-1H-indol-2-yl)sulfonyl]-4-[(4,5,6,7-tetrahydro-5-methylthiazolo[5,4-c]pyridin-2-yl)carbonyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 357429-82-4 CAPLUS
CN Piperazine, 1-[(5-chloro-2-benzofuranyl)sulfonyl]-4-[(4,5,6,7-tetrahydro-5-methylthiazolo[5,4-c]pyridin-2-yl)carbonyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 7 OF 9 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2001:416942 CAPLUS
DOCUMENT NUMBER: 135:19660
TITLE: Preparation of pyrazolo[1,5-a]pyrimidines as potassium channel inhibitors
INVENTOR(S): Atwal, Karnail S.; Vaccaro, Wayne; Lloyd, John; Finlay, Heather; Yan, Lin; Bhandaru, Rao S.
PATENT ASSIGNEE(S): Bristol-Myers Squibb Company, USA
SOURCE: PCT Int. Appl., 298 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

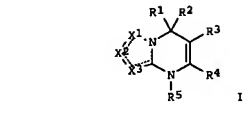
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001040231	A1	20010607	WO 2000-US32785	20001204

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

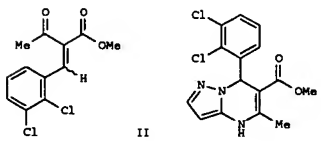
CA 2393809	AA	20010607	CA 2000-2393809	20001204
EP 1237891	A1	20020911	EP 2000-980930	20001204
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, MC, IE, SI, LT, LV, FI, RO, MK, CY, AL				
BR 2000016166	A	20030624	BR 2000-16166	20001204
JP 2004507442	T2	20040311	JP 2001-540986	20001204
NZ 518663	A	20041126	NZ 2000-518663	20001204
US 2003022890	A1	20030130	US 2000-729731	20001205
US 6706720	B2	20040316		
ZA 2002003407	A	20030925	ZA 2002-3407	20020429
NO 2002002649	A	20020606	NO 2002-2649	20020605
US 2004063687	A1	20040401	US 2003-660878	20030912

PRIORITY APPLN. INFO.:
US 1999-169091P P 19991206
US 2000-236037P P 20000928
WO 2000-US32785 W 20001204
US 2000-729731 A3 20001205

OTHER SOURCE(S): MARPAT 135:19660
GI



I

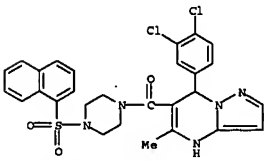


II III

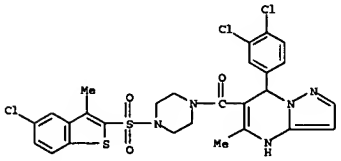
AB The title compds. [I; X1-X3 = N, NR6, (CR7)q, (CHR7)q, CO; R1-R7 = (CH2)n(Z1)m(CH2)pZ2; or R1-R5 may, in one or more pairs of two, together with the atoms to which they are bonded, form (un)substituted carbocyclic, heterocyclic group; or R6 and R7 may, together with the atoms to which they are bonded, form (un)substituted carbocyclic, heterocyclic group; Z1 = O, S, CO, etc.; Z2 = H, NO2, halo, etc.; n, p = 0-10 (when m = 0, p is also 0); m = 0-1; q = 1-3], useful as inhibitors of potassium channel function (especially inhibitors of the Kv1 subfamily of voltage gated K+ channels, especially inhibitors Kv1.5 which has been linked to the ultra-rapidly activating delayed rectifier K+ current IKur) in the prevention and treatment of arrhythmia and IKur-associated conditions, were prepared Thus, reacting Me acetoacetate with 2,3-dichlorobenzaldehyde in the presence of piperidine and AcOH in PhMe followed by refluxing the resulting intermediate II with 3-aminopyrazole in 1-propanol afforded the title compound III. The compds. I are effective at 0.001-100 mg/kg/day.

IT 343244-51-9P 343244-55-3P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of pyrazolo[1,5-a]pyrimidines as potassium channel inhibitors)

RN 343244-51-9 CAPLUS
CN Piperazine, 1-[(7-(3,4-dichlorophenyl)-4,7-dihydro-5-methylpyrazolo[1,5-a]pyrimidin-6-yl]carbonyl]-4-(1-naphthalenylsulfonyl)- (9CI) (CA INDEX NAME)



RN 343244-55-3 CAPLUS
CN Piperazine, 1-[(5-chloro-3-methylbenzo[b]thien-2-yl)sulfonyl]-4-[[7-(3,4-dichlorophenyl)-4,7-dihydro-5-methylpyrazolo[1,5-a]pyrimidin-6-yl]carbonyl]- (9CI) (CA INDEX NAME)



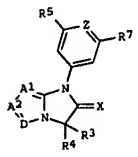
REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 8 OF 9 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2001:78387 CAPLUS
DOCUMENT NUMBER: 134:131538
TITLE: Preparation of imidazoimidazoles and triazoles as anti-inflammatory agents
INVENTOR(S): Wu, Jiang-Ping; Kelly, Terence Alfred; Lemieux, Rene M.; Goldberg, Daniel R.; Emeigh, Jonathan Emilian; Sorcek, Ronald J.

PATENT ASSIGNEE(S): Boehringer Ingelheim Pharmaceuticals, Inc., USA
SOURCE: PCT Int. Appl., 368 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001007440	A1	20010201	WO 2000-US18884	20000712
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 6492408	B1	20021210	US 2000-604312	20000627
CA 2383017	AA	20010201	CA 2000-2383017	20000712
BR 2000012666	A	20020409	BR 2000-12666	20000712
EP 1216247	A1	20020626	EP 2000-948618	20000712
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
TR 200200160	T2	20021021	TR 2002-200200160	20000712
JP 2003505460	T2	20030212	JP 2001-512524	20000712
EE 200200028	A	20030415	EE 2002-28	20000712
NZ 517217	A	20040227	NZ 2000-517217	20000712
AU 776496	B2	20040909	AU 2000-62091	20000712
BG 106312	A	20020930	BG 2002-106312	20020116
ZA 2002000428	A	20030117	ZA 2002-428	20020117
NO 2002000275	A	20020204	NO 2002-275	20020118
US 2003203955	A1	20031030	US 2002-195973	20020716
US 6689804	B2	20040210		
US 2004116426	A1	20040617	US 2003-672412	20030925
PRIORITY APPLN. INFO.:			US 1999-144905P	P 19990721
			US 1999-150939P	P 19990826
			US 2000-604312	A1 20000627
			WO 2000-US18884	W 20000712
			US 2002-195973	A3 20020716

OTHER SOURCE(S): MARPAT 134:131538
GI



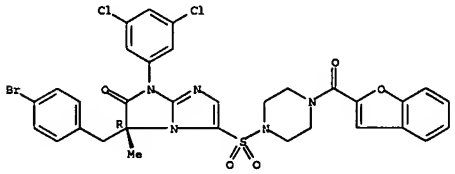
I

AB Compds. I [A1 = N, CH; A2 = N, CH, CR'; R' = halo, cyano, alkoxy, alkoxycarbonyl, alkylsulfonyl; D = N, CH, CR1, C(SO2R1), C[S(:O)R1], C(CHO), C(SR1a), C(OR1a), C(NHR1a); R1, R1a = (substituted) alkyl, cycloalkyl, aryl, or heteroaryl groups, alkyl groups containing 2-6 carbons substituted with carboxylate, phosphonate, sulfonate, amidine, or guanidine moieties, amino, halogen, cyano; R3 = H, alkyl, cycloalkyl, alkoxy or amino substituted alkyl, cycloalkyl; R4 = substituted arylmethyl; R5 = Cl, F3C; R7 = H, halo, Me, cyano, O2N, F3C; X = O, S; if Z = N or CH, R7 = Cl, F3C, cyano, O2N; Z = N, CR6 where R6 = H, halo, Me, cyano, F3C], based mostly on imidazo[1,2-a]imidazole and imidazo[1,2-a]triazole nuclei, are prepared as inhibitors of the binding of leukointegrins to cell adhesion mols. in the treatment or prevention of inflammatory and immune cell-mediated diseases. E.g., (R)-I (A1 = N; A2 = D = CH; R3 = Me; R4 = 4-BrC6H4CH2; R5 = R7 = Cl; X = O; Z = CH) (II) was prepared from (R)-α-methyl-4-bromophenylalanine Me ester and 3,5-dichlorophenylisothiocyanate by heating in 1,4-dioxane to give a thiohydrantoin which was treated with N-(triphenylphosphoranylidene)-1,3-dioxolan-2-ylmethylamine [prepared from 2-(azidomethyl)-1,3-dioxolane and triphenylphosphine] to give a dioxolanylmethyliminoimidazolidinone derivative; treatment of the intermediate with trifluoroacetic acid and heating at 90° overnight gave II with m.p. 36-37.5°. I inhibited binding of leukointegrins to cell adhesion mols. with Kd<10 μM.

IT 321723-06-2P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of imidazoimidazole and imidazotriazole derivs. as inhibitors of leukointegrin binding to cell adhesion mols. in the treatment of inflammatory and immune-cell mediated diseases)

RN 321723-06-2 CAPLUS
CN Piperazine, 1-(2-benzofuranylcarbonyl)-4-[[(3R)-3-[(4-bromophenyl)methyl]-1-(3,5-dichlorophenyl)-2,3-dihydro-3-methyl-2-oxo-1H-imidazo[1,2-a]imidazol-5-yl]sulfonyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

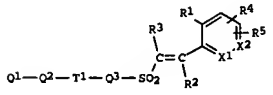


REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 9 OF 9 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1999:233901 CAPLUS
DOCUMENT NUMBER: 130:296694
TITLE: Preparation of heterocyclic compounds having the sulfonyl group as antithrombotics
INVENTOR(S): Kobayashi, Shozo; Komoriya, Satoshi; Ito, Masayuki; Nagata, Tsutomu; Mochizuki, Akiyoshi; Haginoya, Noriyasu; Nagahara, Takayasu; Horino, Haruhiko
PATENT ASSIGNEE(S): Daiichi Pharmaceutical Co., Ltd., Japan
SOURCE: PCT Int. Appl., 342 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9916747	A1	19990408	WO 1998-JP4411	19980930
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2304285	AA	19990408	CA 1998-2304285	19980930
AU 9892806	A1	19990423	AU 1998-92806	19980930
EP 1031563	A1	20000830	EP 1998-945542	19980930
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI				
BR 9815377	A	20010116	BR 1998-15377	19980930
US 6525042	B1	20030225	US 2000-508680	20000328
NO 2000001636	A	20000329	NO 2000-1636	20000329
US 2003232808	A1	20031218	US 2002-323978	20021220
PRIORITY APPLN. INFO.:			JP 1997-267117	A 19970930
			WO 1998-JP4411	W 19980930
			US 2000-508680	A3 20000328

OTHER SOURCE(S): MARPAT 130:296694
GI

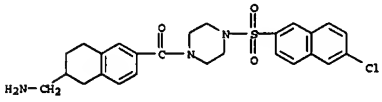


I

AB The title compds. I [R1 is hydrogen, hydroxyl, nitro or the like; R2 and R3 are each independently hydrogen, halogeno or the like; R4 and R5 are each independently hydrogen, halogeno or the like; Q1 is an optionally substituted saturated or unsatd. 5- or 6-membered cyclic hydrocarbon group or the like; Q2 is a single bond, oxygen or the like; Q3 is a heterocyclic moiety (represented by 4 generic structures); T1 is carbonyl or the like; and X1 and X2 are each independently methine or nitrogen] are prepared I speedily exert satisfactory and persistent antithrombotic effects through oral administration and cause few adverse effects. In an in vitro test for inhibition of activated blood coagulation factor X, 1-[(6-chloronaphthalen-2-yl)sulfonyl]-4-[(6-methyl-4,5,6,7-tetrahydrothiazolo[5,4-c]pyridin-2-yl)carbonyl]piperazine hydrochloride showed the Ki value of 6.6 nM.

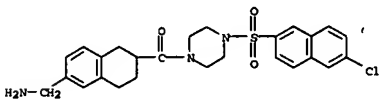
IT 222985-32-2P 222985-35-5P 222985-36-6P
222985-38-8P 222985-49-1P 222985-50-4P
222985-51-5P 222985-52-6P 222985-53-7P
222985-55-9P 222985-57-1P 222985-64-0P
222985-67-3P 222985-68-4P 222985-69-5P
222985-70-8P 222985-71-9P 222985-73-1P
222985-75-3P 222985-77-5P 222985-79-7P
222985-86-6P 222985-88-8P 222985-89-9P
222985-90-2P 222986-01-8P 222986-04-1P
222986-13-2P 222986-14-3P 222986-15-4P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of heterocyclic compds. having the sulfonyl group as antithrombotics)

RN 222985-32-2 CAPLUS
CN Piperazine, 1-[[6-(aminomethyl)-5,6,7,8-tetrahydro-2-naphthalenyl]carbonyl]-4-[(6-chloro-2-naphthalenyl)sulfonyl]-, monohydrochloride (9CI) (CA INDEX NAME)



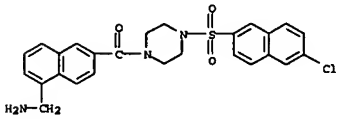
● HCl

RN 222985-35-5 CAPLUS
CN Piperazine, 1-[[6-(aminomethyl)-1,2,3,4-tetrahydro-2-naphthalenyl]carbonyl]-4-[(6-chloro-2-naphthalenyl)sulfonyl]-, monohydrochloride (9CI) (CA INDEX NAME)



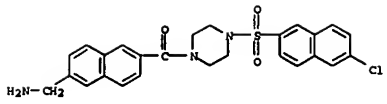
● HCl

RN 222985-36-6 CAPLUS
CN Piperazine, 1-[[5-(aminomethyl)-2-naphthalenyl]carbonyl]-4-[(6-chloro-2-naphthalenyl)sulfonyl]-, monohydrochloride (9CI) (CA INDEX NAME)



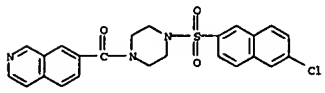
● HCl

RN 222985-38-8 CAPLUS
CN Piperazine, 1-[[6-(aminomethyl)-2-naphthalenyl]carbonyl]-4-[(6-chloro-2-naphthalenyl)sulfonyl]-, monohydrochloride (9CI) (CA INDEX NAME)



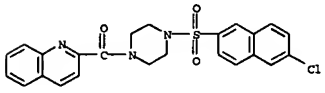
● HCl

RN 222985-49-1 CAPLUS
CN Piperazine, 1-[(6-chloro-2-naphthalenyl)sulfonyl]-4-(7-isoquinolinylcarbonyl)-, monohydrochloride (9CI) (CA INDEX NAME)



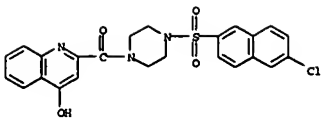
● HCl

RN 222985-50-4 CAPLUS
CN Piperazine, 1-[(6-chloro-2-naphthalenyl)sulfonyl]-4-(2-quinolinylcarbonyl)-, monohydrochloride (9CI) (CA INDEX NAME)



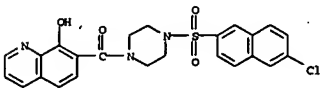
● HCl

RN 222985-51-5 CAPLUS
CN Piperazine, 1-[(6-chloro-2-naphthalenyl)sulfonyl]-4-[(4-hydroxy-2-quinolinyl)carbonyl]-, monohydrochloride (9CI) (CA INDEX NAME)



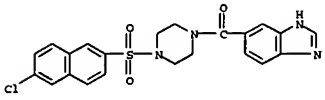
● HCl

RN 222985-52-6 CAPLUS
CN Piperazine, 1-[(6-chloro-2-naphthalenyl)sulfonyl]-4-[(8-hydroxy-7-quinolinyl)carbonyl]-, monohydrochloride (9CI) (CA INDEX NAME)



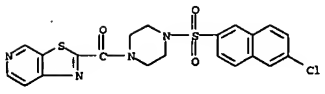
● HCl

RN 222985-53-7 CAPLUS
CN Piperazine, 1-(1H-benzimidazol-5-ylcarbonyl)-4-[(6-chloro-2-naphthalenyl)sulfonyl]-, monohydrochloride (9CI) (CA INDEX NAME)



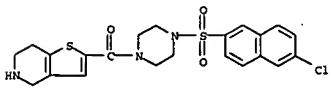
● HCl

RN 222985-55-9 CAPLUS
CN Piperazine, 1-[(6-chloro-2-naphthalenyl)sulfonyl]-4-(thiazolo[5,4-c]pyridin-2-ylcarbonyl)-, monohydrochloride (9CI) (CA INDEX NAME)



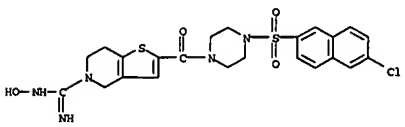
● HCl

RN 222985-57-1 CAPLUS
CN Piperazine, 1-[(6-chloro-2-naphthalenyl)sulfonyl]-4-[(4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)carbonyl]-, monohydrochloride (9CI) (CA INDEX NAME)



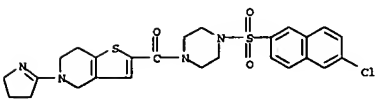
● HCl

RN 222985-64-0 CAPLUS
CN Piperazine, 1-[(6-chloro-2-naphthalenyl)sulfonyl]-4-[[4,5,6,7-tetrahydro-5-[(hydroxyamino)iminomethyl]thieno[3,2-c]pyridin-2-yl]carbonyl]-, monohydrochloride (9CI) (CA INDEX NAME)



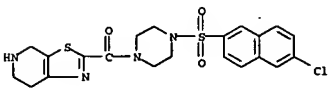
● HCl

RN 222985-67-3 CAPLUS
CN Piperazine, 1-[(6-chloro-2-naphthalenyl)sulfonyl]-4-[[5-(3,4-dihydro-2H-pyrrol-5-yl)-4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl]carbonyl]-, monohydrochloride (9CI) (CA INDEX NAME)



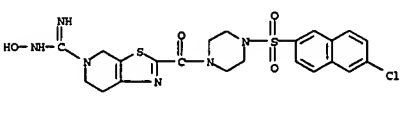
● HCl

RN 222985-68-4 CAPLUS
CN Piperazine, 1-[(6-chloro-2-naphthalenyl)sulfonyl]-4-[(4,5,6,7-tetrahydrothiazolo[5,4-c]pyridin-2-yl)carbonyl]-, monohydrochloride (9CI) (CA INDEX NAME)



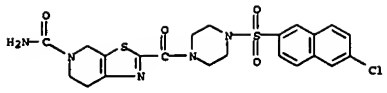
● HCl

RN 222985-69-5 CAPLUS
CN Piperazine, 1-[(6-chloro-2-naphthalenyl)sulfonyl]-4-[[4,5,6,7-tetrahydro-5-[(hydroxyamino)iminomethyl]thiazolo[5,4-c]pyridin-2-yl]carbonyl]-, monohydrochloride (9CI) (CA INDEX NAME)



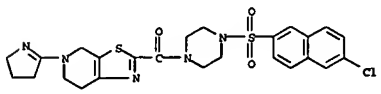
● HCl

RN 222985-70-8 CAPLUS
CN Thiazolo[5,4-c]pyridine-5(4H)-carboxamide, 2-[[4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-piperazinyl]carbonyl]-6,7-dihydro-, monohydrochloride (9CI) (CA INDEX NAME)



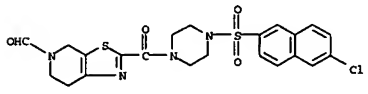
● HCl

RN 222985-71-9 CAPLUS
CN Piperazine, 1-[(6-chloro-2-naphthalenyl)sulfonyl]-4-[[5-(3,4-dihydro-2H-pyrrol-5-yl)-4,5,6,7-tetrahydrothiazolo[5,4-c]pyridin-2-yl]carbonyl]-, monohydrochloride (9CI) (CA INDEX NAME)



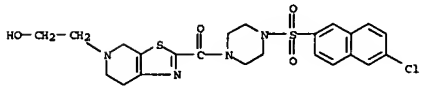
● HCl

RN 222985-73-1 CAPLUS
CN Piperazine, 1-[(6-chloro-2-naphthalenyl)sulfonyl]-4-[(5-formyl-4,5,6,7-tetrahydrothiazolo[5,4-c]pyridin-2-yl)carbonyl]-, monohydrochloride (9CI) (CA INDEX NAME)



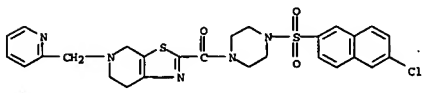
● HCl

RN 222985-75-3 CAPLUS
CN Piperazine, 1-[(6-chloro-2-naphthalenyl)sulfonyl]-4-[(4,5,6,7-tetrahydro-5-methylthiazolo[5,4-c]pyridin-2-yl)carbonyl]-, monohydrochloride (9CI) (CA INDEX NAME)



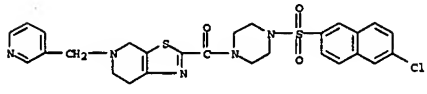
● HCl

RN 222985-88-8 CAPLUS
CN Piperazine, 1-[(6-chloro-2-naphthalenyl)sulfonyl]-4-[(4,5,6,7-tetrahydro-5-(2-pyridinylmethyl)thiazolo[5,4-c]pyridin-2-yl]carbonyl]-, monohydrochloride (9CI) (CA INDEX NAME)



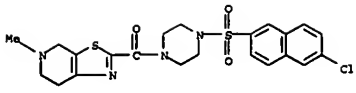
● HCl

RN 222985-89-9 CAPLUS
CN Piperazine, 1-[(6-chloro-2-naphthalenyl)sulfonyl]-4-[(4,5,6,7-tetrahydro-5-(3-pyridinylmethyl)thiazolo[5,4-c]pyridin-2-yl]carbonyl]-, monohydrochloride (9CI) (CA INDEX NAME)



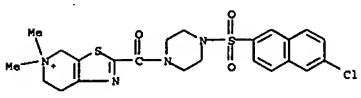
● HCl

RN 222985-90-2 CAPLUS
CN Piperazine, 1-[(6-chloro-2-naphthalenyl)sulfonyl]-4-[(4,5,6,7-tetrahydro-5-(4-pyridinylmethyl)thiazolo[5,4-c]pyridin-2-yl]carbonyl]-, monohydrochloride (9CI) (CA INDEX NAME)



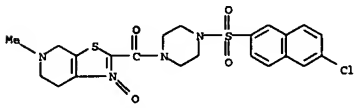
● HCl

RN 222985-77-5 CAPLUS
CN Thiazolo[5,4-c]pyridinium, 2-[[4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-piperazinyl]carbonyl]-4,5,6,7-tetrahydro-5,5-dimethyl-, iodide (9CI) (CA INDEX NAME)

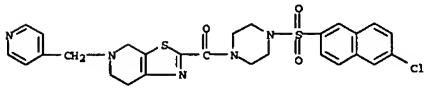


● I⁻

RN 222985-79-7 CAPLUS
CN Piperazine, 1-[(6-chloro-2-naphthalenyl)sulfonyl]-4-[(4,5,6,7-tetrahydro-5-methyl-1-oxidothiazolo[5,4-c]pyridin-2-yl)carbonyl]- (9CI) (CA INDEX NAME)

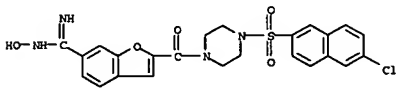


RN 222985-86-6 CAPLUS
CN Piperazine, 1-[(6-chloro-2-naphthalenyl)sulfonyl]-4-[(4,5,6,7-tetrahydro-5-(2-hydroxyethyl)thiazolo[5,4-c]pyridin-2-yl]carbonyl]-, monohydrochloride (9CI) (CA INDEX NAME)



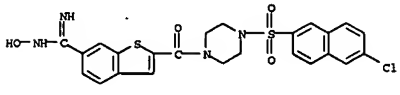
● HCl

RN 222986-01-8 CAPLUS
CN Piperazine, 1-[(6-chloro-2-naphthalenyl)sulfonyl]-4-[[6-[(hydroxyamino)iminomethyl]-2-benzofuranyl]carbonyl]-, monohydrochloride (9CI) (CA INDEX NAME)



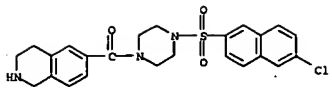
● HCl

RN 222986-04-1 CAPLUS
CN Piperazine, 1-[(6-chloro-2-naphthalenyl)sulfonyl]-4-[[6-[(hydroxyamino)iminomethyl]benzo[b]thien-2-yl]carbonyl]-, monohydrochloride (9CI) (CA INDEX NAME)



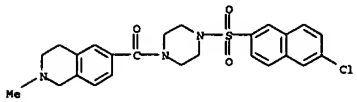
● HCl

RN 222986-13-2 CAPLUS
CN Piperazine, 1-[(6-chloro-2-naphthalenyl)sulfonyl]-4-[(1,2,3,4-tetrahydro-6-isoquinolinyl)carbonyl]-, monohydrochloride (9CI) (CA INDEX NAME)



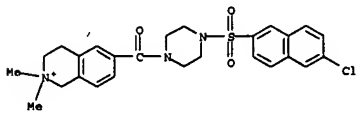
● HCl

RN 222986-14-3 CAPLUS
CN Piperazine, 1-[(6-chloro-2-naphthalenyl)sulfonyl]-4-[(1,2,3,4-tetrahydro-2-methyl-6-isoquinolinyl)carbonyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

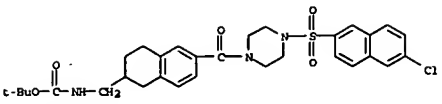
RN 222986-15-4 CAPLUS
CN Isoquinolinium, 6-[[4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-piperazinyl]carbonyl]-1,2,3,4-tetrahydro-2,2-dimethyl-, iodide (9CI) (CA INDEX NAME)



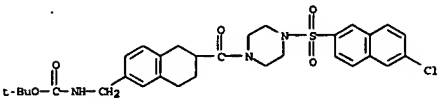
● I⁻

IT 222986-96-1P 222987-04-4P 222987-06-6P
222987-38-4P 222987-40-8P 222987-43-1P
222987-56-6P 222987-57-7P 222987-61-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of heterocyclic compds. having the sulfonyl group as antithrombotics)

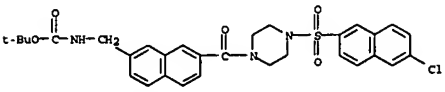
RN 222986-96-1 CAPLUS
CN Carbamic acid, [[6-[[4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-piperazinyl]carbonyl]-1,2,3,4-tetrahydro-2-naphthalenyl]methyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



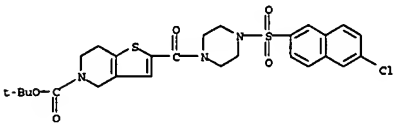
RN 222987-04-4 CAPLUS
CN Carbamic acid, [[6-[[4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-piperazinyl]carbonyl]-5,6,7,8-tetrahydro-2-naphthalenyl]methyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



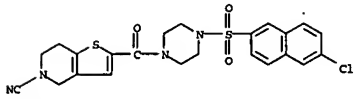
RN 222987-06-6 CAPLUS
CN Carbamic acid, [[7-[[4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-piperazinyl]carbonyl]-2-naphthalenyl]methyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



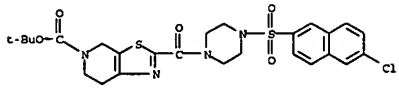
RN 222987-38-4 CAPLUS
CN Thieno[3,2-c]pyridine-5(4H)-carboxylic acid, 2-[[4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-piperazinyl]carbonyl]-6,7-dihydro-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



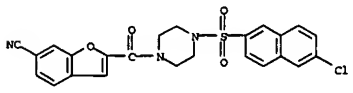
RN 222987-40-8 CAPLUS
CN Piperazine, 1-[(6-chloro-2-naphthalenyl)sulfonyl]-4-[(5-cyano-4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl)carbonyl]- (9CI) (CA INDEX NAME)



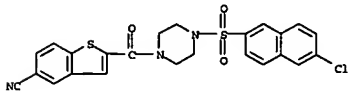
RN 222987-43-1 CAPLUS
CN Thiazolo[5,4-c]pyridine-5(4H)-carboxylic acid, 2-[[4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-piperazinyl]carbonyl]-6,7-dihydro-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



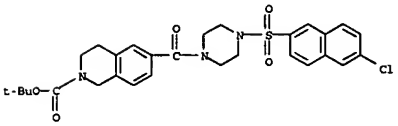
RN 222987-56-6 CAPLUS
CN Piperazine, 1-[(6-chloro-2-naphthalenyl)sulfonyl]-4-[(6-cyano-2-benzofuranyl)carbonyl]- (9CI) (CA INDEX NAME)



RN 222987-57-7 CAPLUS
CN Piperazine, 1-[(6-chloro-2-naphthalenyl)sulfonyl]-4-[(5-cyanobenzo[b]thien-2-yl)carbonyl]- (9CI) (CA INDEX NAME)



RN 222987-61-3 CAPLUS
CN 2(1H)-Isoquinolinecarboxylic acid, 6-[[4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-piperazinyl]carbonyl]-3,4-dihydro-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> LOGOFF
ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF
LOGOFF? (Y)/N/HOLD:N

=> FILE MEDLINE

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	45.36	209.98
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-6.57	-6.57

FILE 'MEDLINE' ENTERED AT 11:07:16 ON 10 JAN 2005

FILE LAST UPDATED: 8 JAN 2005 (20050108/UP). FILE COVERS 1950 TO DATE.

On December 19, 2004, the 2005 MeSH terms were loaded.

Warning: The search L-number/HUMAN limit is missing from records indexed with the new 2005 MeSH (records added since December 19, 2004). Until this is corrected, include HUMANS/CT and 20041219-20051231/ED in searches to limit results to humans for this time period.

OLDMEDLINE now back to 1950.

MEDLINE thesauri in the /CN, /CT, and /MN fields incorporate the MeSH 2005 vocabulary. See http://www.nlm.nih.gov/mesh/ and http://www.nlm.nih.gov/pubs/techbull/nd03/nd03_mesh.html for a description of changes.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> LOGOFF
ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF
LOGOFF? (Y)/N/HOLD:Y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.38	210.36
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-6.57

STN INTERNATIONAL LOGOFF AT 11:07:20 ON 10 JAN 2005